



NITFS Compliance Registration



**Enterprise Image Access Solutions (E-IAS) Image
Product: Chipper Version 1.1 (Linux)**

Sponsor: ITT Visual Information Solutions

Developer: ITT Visual Information Solutions

Date: 20 April 2010
Expiration: 19 April 2012
Registration #: 3015

- ☒ Initial Registration
- ☐ Supplemental/Update #
- ☐ Derived from Reg. #

☐ **System**
N-0105/98, §4.1.1

☐ **Product**
N-0105/98, §4.1.2

☒ **Component**
N-0105/98, §4.1.3

Complexity Level							
NITF 2.1 CLEVEL							
	3	5	6	7			
Interpret							
Generate							
NITF 2.0 CLEVEL							
	1	2	3	4	5	6	Oth
Interpret							
Generate							

Configurations Tested:

- VMWave workstation, Fedora, kernel Linux, GNOME

Note: The image chipper performs a limited interpretation on the input products to process an update compliant output product. An example is interpreting the RPC TRE to establish new IGEOLO corner points. The application also updates DIGEST, ICHIP and HISTO TREs

NITFS Features Implemented:

Format

- ☒ NITF
- ☒ 2.1
- ☒ 2.0
- ☐ 1.1

NSIF

- ☐ 1.0

Pixel Value Types

- ☐ Boolean
- ☒ Integer
- ☐ Signed Integer *
- ☐ IEEE Real *
- ☐ IEEE Complex *

Annotation Segment Types

- ☐ Bit Mapped **
- ☐ CGM, 2301
- ☐ CGM, 2301A
- ☐ Labels **

Text Segments

- ☐ STA
- ☐ UT1
- ☐ U8S
- ☐ MTF

Image Segment Types

- ☒ MONO
- ☒ RGB
- ☐ RGB/LUT
- ☒ YCbCr
- ☒ MULTI
- ☐ NODISPLY
- ☐ POLAR

Image Compression

- ☒ No Compression
- ☒ JPEG Lossy, 8-bit
- ☒ JPEG Lossy, 12-bit
- ☐ JPEG Downsampling
- ☐ JPEG Lossless
- ☒ JPEG 2000
- ☐ Bi-Level
- ☐ Vector Quantization

Data Extension Segments

- ☐ TRE_OVERFLOW
- ☐ STREAMING_FILE_HEADER
- ☐ Controlled Extensions **
- ☐ Registered Extensions **

Tagged Record Extensions

- ☒ CSDE
- ☒ DIGEST
- ☐ PIAE
- ☒ J2KLRA
- ☒ ICHIPB
- ☒ NCDRD

Legend

- Interpret Gen ☒ Fully implemented
- ☒ Partially implemented
- ☐ Not implemented

Valerie Baker, Lt Col, USAF, Portfolio Chief
Joint Interoperability Test Command
Executive Agent to National Geospatial-
Intelligence Agency for the NITFS Test and
Evaluation Program

Registration does not guarantee that a product will meet all users' requirements. Potential users should evaluate the detailed test results to determine the suitability of a product for the intended use. Optional NITFS features may not be implemented.